

US006306358B1

(12) United States Patent

Yamamoto

(10) Patent No.:

US 6,306,358 B1

(45) Date of Patent:

Oct. 23, 2001

(54) CRYSTALLINE TURBOSTRATIC BORON NITRIDE POWDER AND METHOD FOR PRODUCING SAME

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(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 09/089,018

(22) Filed: Jun. 2, 1998

(58) Field of Search 423/290

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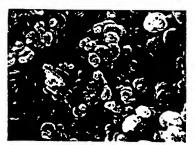
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(57) ABSTRACT

Turbostratic boron nitride (t-BN) powder having excellent sinterability. A mixture of boric acid anhydride and urea is charged in a reaction vessel together with alkali-borate, heated step by step in the vessel in an nonoxidizing gas atmosphere of one atmospheric pressure or above, and kept at a temperature from 850° C. to 950° C. to yield an intermediate product formal substantially of an amorphous boron nitride powder (first reaction step). Then the intermediate product is heated and kept at a temperature from 1200° C. to 1400° C. to crystallize crystalline t-BN, and the product is purified by washing with water and aqueous solution to obtain pure crystalline t-BN powder.

6 Claims, 8 Drawing Sheets



x20000



x10000